



The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
William A. Hinton State Laboratory Institute  
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK  
GOVERNOR

TIMOTHY P. MURRAY  
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD  
SECRETARY

JOHN AUERBACH  
COMMISSIONER

12/13/2010

Megan Mahoney  
Assistant District Attorney, Plymouth County

Dear ADA Mahoney,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED]  
Included are copies of the following:

1. Drug Analysis Laboratory Receipt.
2. Curriculum Vitae for Annie Khan (Dookhan), & Della Saunders.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

I, Annie Khan (Dookhan), was the custodial chemist and performed the preliminary testing and net weight for this sample. Della Saunders was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in cursive script, appearing to read "Annie Khan".

Annie Khan (Dookhan)  
Chemist II  
Drug Analysis Lab  
Jamaica Plain, MA. 02130  
(617) 983-6631  
[Annie.Khan@state.ma.us](mailto:Annie.Khan@state.ma.us)

PLEASE PRINT CLEARLY OR TYPE ALL INFORMATION

*The Commonwealth of Massachusetts*  
*Executive Office of Health and Human Services*  
*Department of Public Health*  
*State Laboratory Institute*

Boston Drug Laboratory  
Tel (617) 983-6622  
Fax (617) 983-6625

Amherst Drug Laboratory  
Tel (413) 545-2601  
Fax (413) 545-2608

Boston Hours

8:00 - 11:00

2:00 - 4:00

Amherst Hours

9:00 - 12:00

1:00 - 3:00

**DRUG RECEIPT**

City or Department: Brockton Police Department

Police Reference No.: [REDACTED]

Name and Rank of Submitting Officer: DONOHUE, PATRICK S 380 DOC # R012455

Defendant(s) Name (last,first,initial):  
[REDACTED]

*To be completed by Submitter*

Description of Items Submitted

*To be completed by Lab Personnel*

Gross Weight

Lab Number

1) PLASTIC BAGS UNK WHITE ROCK (QTY: 16)  
PLASTIC BAG UNK WHITE ROCK (S17441 )

15.08 gm

Received By: [Signature]

Date: 1.6.10

## Curriculum Vitae

Annie Khan (Dookhan)

### Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

### Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

\*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

\*Appointed Assistant Analyst by Assistant Commissioner of Public Health, January 2004.

\*Responsible for the identification of drugs to determine violations of harmful and narcotic drug laws.

\*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

\*Maintenance and repairs of all analytical instruments.

\*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

\*Responsible for the Quality Control/Quality Assurance program for the drug lab.

\*Notary Public.

\*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

\*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.

\*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

\*Writing, revising and reviewing Standard Operating Procedures (SOPs).

\*Routine QC testing of products for the FDA.

\*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

\*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

\*Complete testing of chemicals for Vendor Validation Project for the FDA.

\*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

### Additional Training:

Dept. of Justice – Forensics Professionals.

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with MBL and Sievers.

### Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

## Curriculum Vitae

Della Saunders

### Education:

Boston University Boston, MA. Bachelors of Arts in Chemistry 1982

### Experience:

**1985-present:** Currently Chemist III Massachusetts Department of Public Health Drug Analysis Laboratory at State Laboratory Institute Boston, MA. Responsible for analyzing unknown substances submitted by Massachusetts law enforcement agencies; operating, maintaining, and interpreting data from analytical equipment (analytical balance, microscope, gas chromatogram, ultraviolet spectrometer, infrared spectrometer, gas chromatogram/mass spectrometer); training junior level chemists; providing expert testimony to local, state, and federal courts in the Commonwealth of Massachusetts.

**1984-1985:** Laboratory Technician in the Media Laboratory at State Laboratory Institute Boston, MA. Responsible for making chemical reagents and media plates; operating and maintaining laboratory equipment (autoclave, pH meter, ultra-violet hood), and collecting safety data for laboratory protocols.

### Training:

**1985:** Six week training with Senior Staff at Massachusetts Department of Public Health (MDPH) Drug Analysis Laboratory Boston, MA. Appointed Assistant Analyst MDPH

**1987:** One week training course in drug analysis given by the Federal Drug Enforcement Agency (DEA) McLean, VA.

**1992:** Training in Gas Chromatograph/Mass Spectroscopy (GC/MS) Hewlett Packard (Agilent)

**1996:** Training in Fourier Transform Infra-Red Spectroscopy ETA (Analect)

**2001:** Expert Witness Workshop National Laboratory Training network Quality Assurance/Quality Control Training (MDPH)

**2002:** Techniques of Supervision Training (MDPH)

**1999:** Notary Public Commonwealth of Massachusetts

No. [REDACTED]

Date Analyzed: JUN 22 2010

City: Brockton Police Dept.

Officer: Detective PATRICK DONOHUE

Def: [REDACTED]

Amount:

Subst: SUB

No. Cont: 16 Cont: pb

Date Rec'd: 01/06/2010

No. Analyzed: 2

Gross Wt.: 15.08

Net Weight: 8.94

# Tests: 12 ASD

Prelim:

cocaine (C)

Findings:

cocaine

+4 P.S.

# DRUG POWDER ANALYSIS FORM

SAMPLE # [REDACTED] AGENCY Brockton ANALYST ADD

No. of samples tested:            Evidence Wt.           

## PHYSICAL DESCRIPTION:

off white chunky substance  
in 16 pbs

Gross Wt (16): 10.0972

Gross Wt (2): 1.2924

Pkg. Wt:           

Net Wt:           

## PRELIMINARY TESTS

### Spot Tests

Cobalt  
2 Thiocyanate (+) +  
2 Marquis -  
2 Froehde's -  
2 Mecke's -

### Microcrystalline Tests

Gold  
2 Chloride +  
2 TLTA (-) +

### OTHER TESTS

## PRELIMINARY TEST RESULTS

RESULTS cocaine

DATE 6-17-10

## GC/MS CONFIRMATORY TEST

RESULTS cocaine

MS  
OPERATOR DCS

DATE 6-22-10

Sample #: \_\_\_\_\_

# samples tested: \_\_\_\_\_

#	Gross Weight	Packet Weight	Net Weight	#	Gross Weight	Packet Weight	Net Weight
1	0.6397	0.0951	0.5646	26			
2	0.6316	0.0782	0.5534	27			
3				28			
4				29			
5				30			
6				31			
7				32			
8				33			
9				34			
10				35			
11				36			
12				37			
13				38			
14				39			
15				40			
16				41			
17				42			
18				43			
19				44			
20				45			
21				46			
22				47			
23				48			
24				49			
25				50			

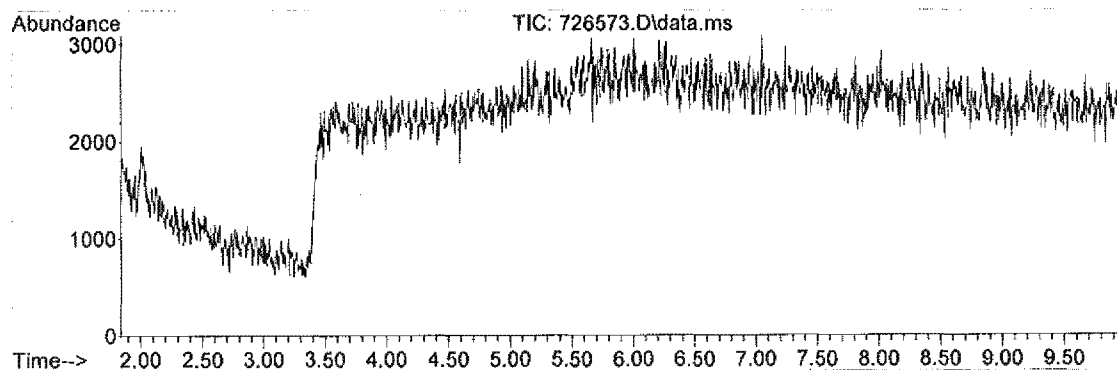
Calculations: Net wt

$$\begin{aligned} \text{Est Net wt} &= 1.1180 \times 2 = 0.5590 \text{ (16)} \\ &= 8.944 \end{aligned}$$

# Area Percent / Library Search Report

**Information from Data File:**

File Name : F:\Q2-2010\System7\06\_21\_10\726573.D  
 Operator : DCS  
 Date Acquired : 22 Jun 2010 1:09  
 Sample Name : BLANK  
 Submitted by :  
 Vial Number : 2  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

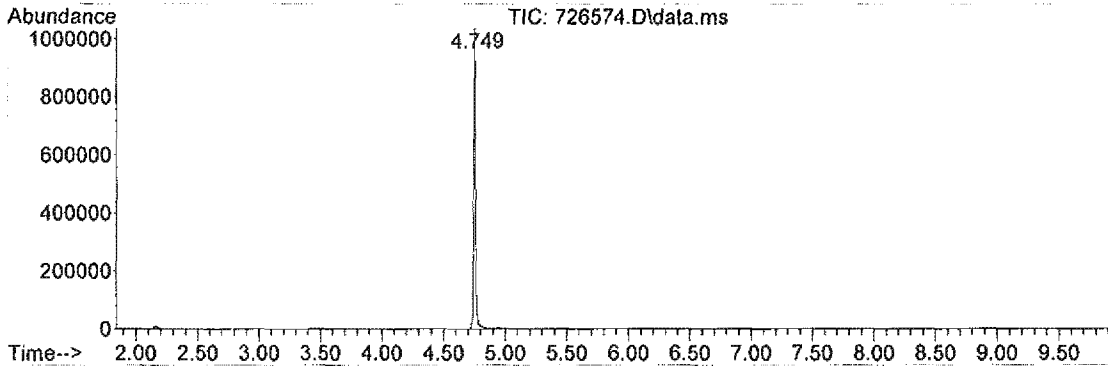
*✓ 12/3/10 JES*



# Area Percent / Library Search Report

**Information from Data File:**

File Name : F:\Q2-2010\System7\06\_21\_10\726574.D  
 Operator : DCS  
 Date Acquired : 22 Jun 2010 1:22  
 Sample Name : COCAINE STANDARD  
 Submitted by :  
 Vial Number : 74  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.749	1083765	100.00	100.00

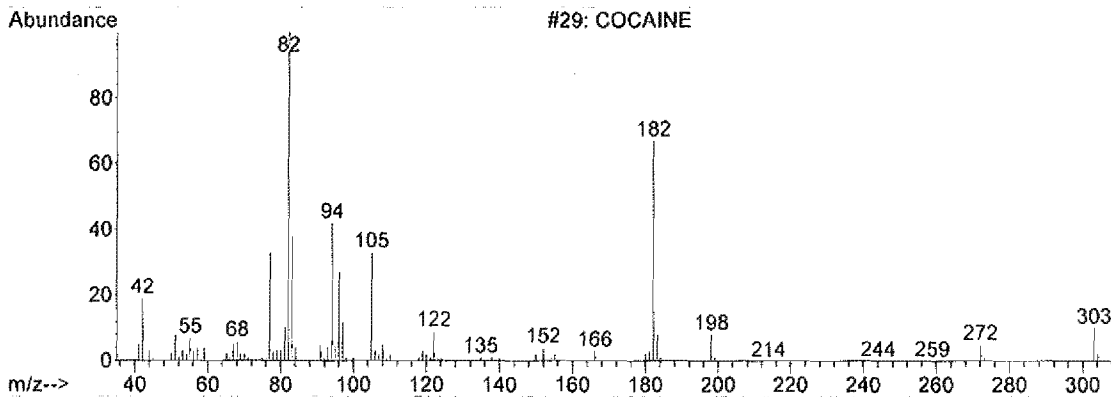
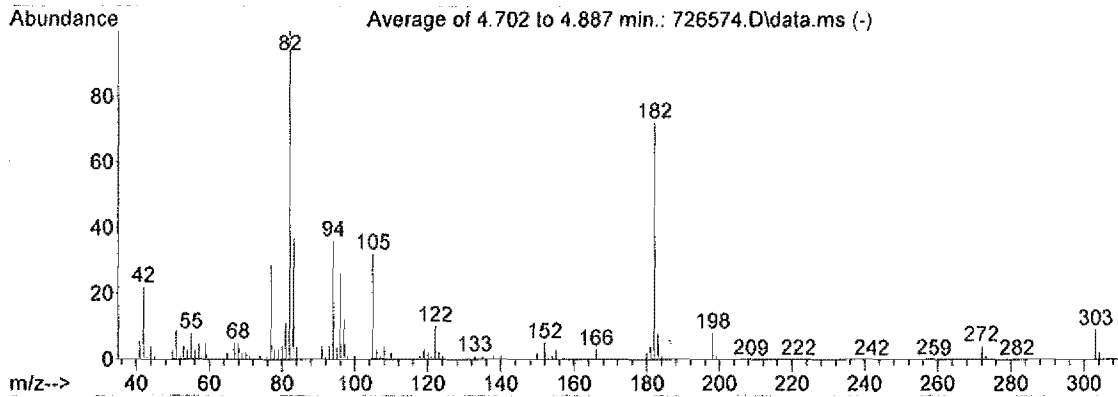
# Area Percent / Library Search Report

**Information from Data File:**

File Name : F:\Q2-2010\System7\06\_21\_10\726574.D  
 Operator : DCS  
 Date Acquired : 22 Jun 2010 1:22  
 Sample Name : COCAINE STANDARD  
 Submitted by :  
 Vial Number : 74  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
 C:\Database\NIST05a.L Minimum Quality: 80  
 C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.75	C:\Database\SLI.L COCAINE	000050-36-2	99



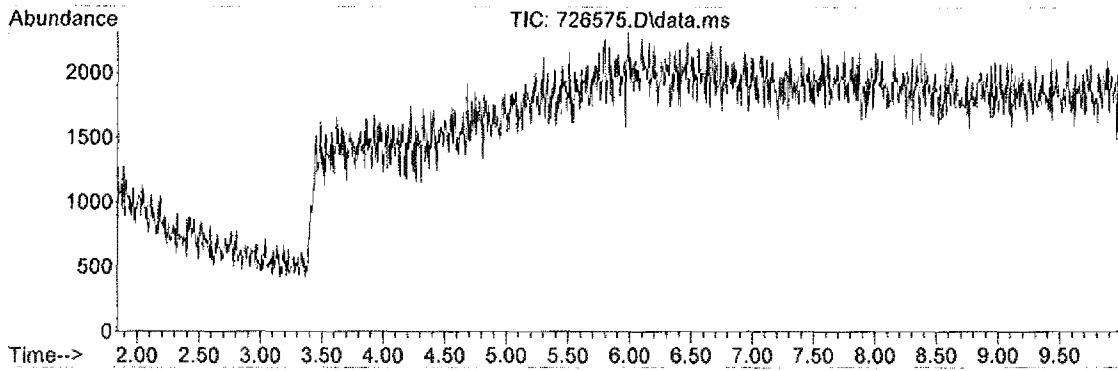
Area Percent / Library Search Report

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Operator : DCS  
Date Acquired : 22 Jun 2010 1:34  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 2  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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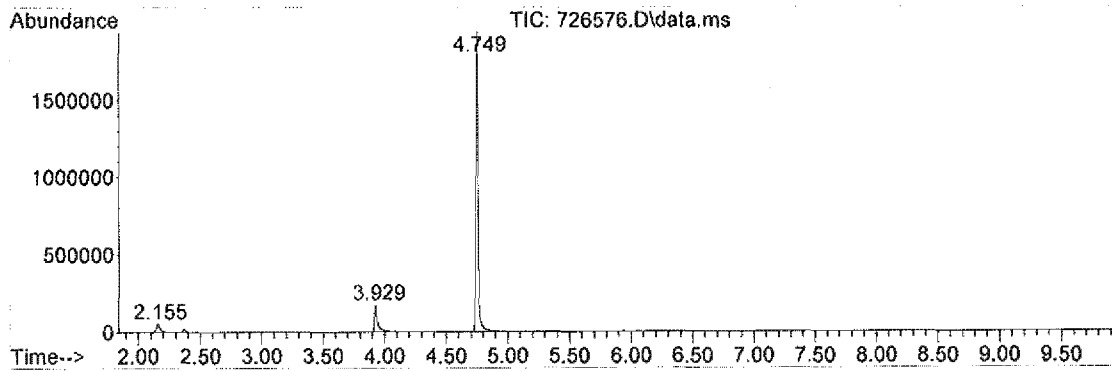
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\*\*\*NO INTEGRATED PEAKS\*\*\*

# Area Percent / Library Search Report

**Information from Data File:**

File Name : F:\Q2-2010\System7\06\_21\_10\726576.D  
 Operator : DCS  
 Date Acquired : 22 Jun 2010 1:47  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 76  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
2.155	113685	4.13	4.89
3.929	317098	11.51	13.64
4.749	2324882	84.37	100.00

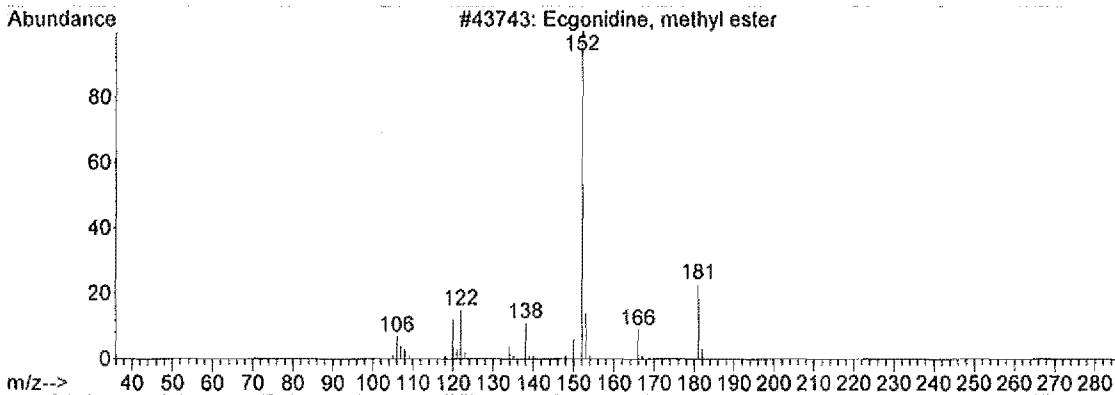
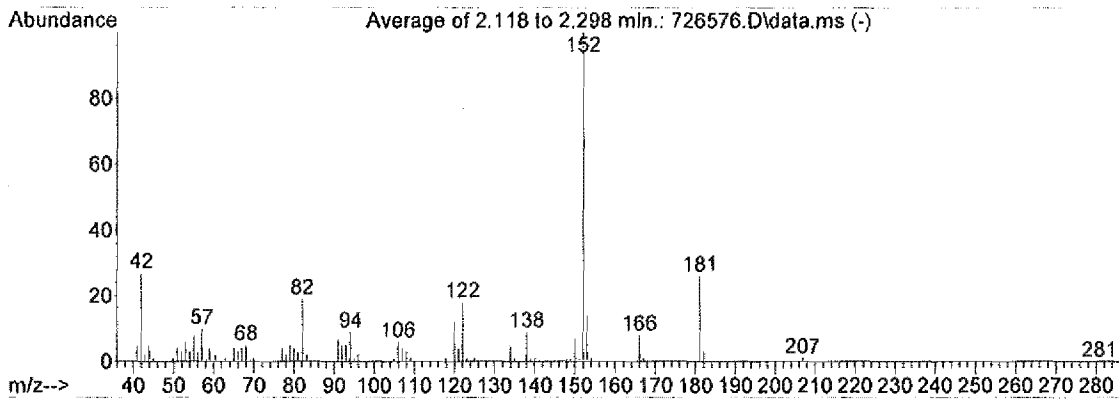
# Area Percent / Library Search Report

**Information from Data File:**

File Name : F:\Q2-2010\System7\06\_21\_10\726576.D  
 Operator : DCS  
 Date Acquired : 22 Jun 2010 1:47  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 76  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
 C:\Database\NIST05a.L Minimum Quality: 80  
 C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	2.15	C:\Database\NIST05a.L		
		Ecgonidine, methyl ester	127379-24-2	98
		2-Carbomethoxy-8-methyl-8-azabicycl	043021-26-7	96
		2(1H)-Pyridinone, 4-hydroxy-6-methy	007135-82-2	50



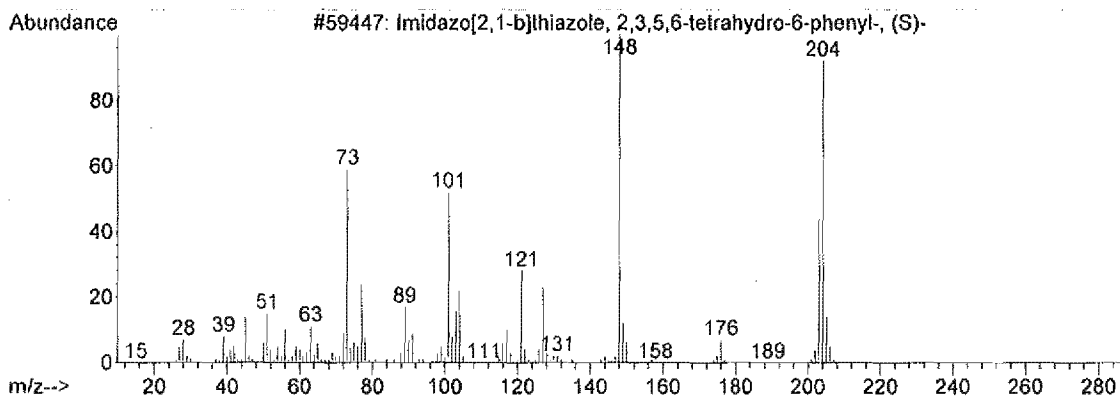
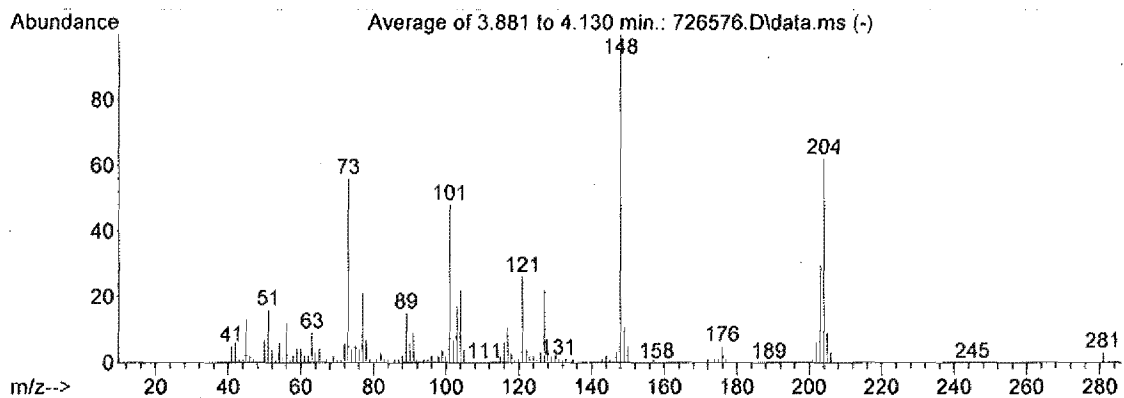
# Area Percent / Library Search Report

**Information from Data File:**

File Name : F:\Q2-2010\System7\06\_21\_10\726576.D  
 Operator : DCS  
 Date Acquired : 22 Jun 2010 1:47  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 76  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
 C:\Database\NIST05a.L Minimum Quality: 80  
 C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	3.93	C:\Database\NIST05a.L		
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	014769-73-4	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98



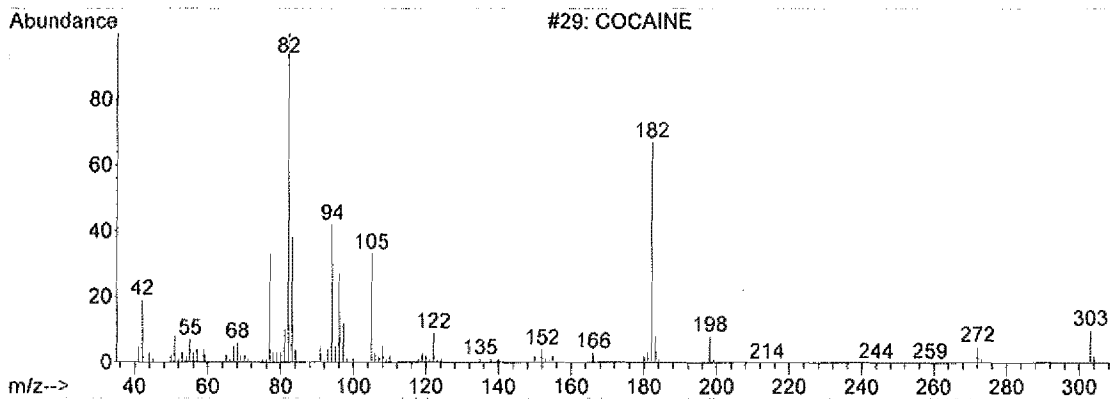
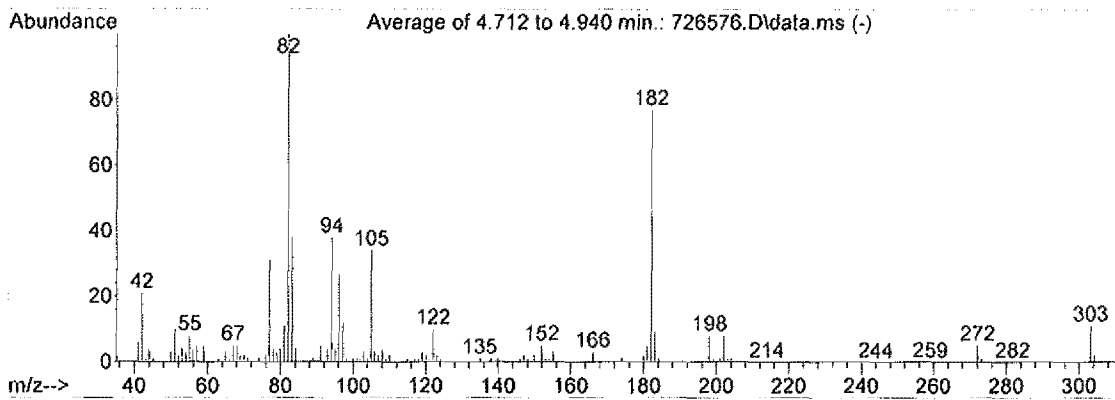
# Area Percent / Library Search Report

**Information from Data File:**

File Name : F:\Q2-2010\System7\06\_21\_10\726576.D  
 Operator : DCS  
 Date Acquired : 22 Jun 2010 1:47  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 76  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
 C:\Database\NIST05a.L Minimum Quality: 80  
 C:\Database\PMW\_TOX2.L

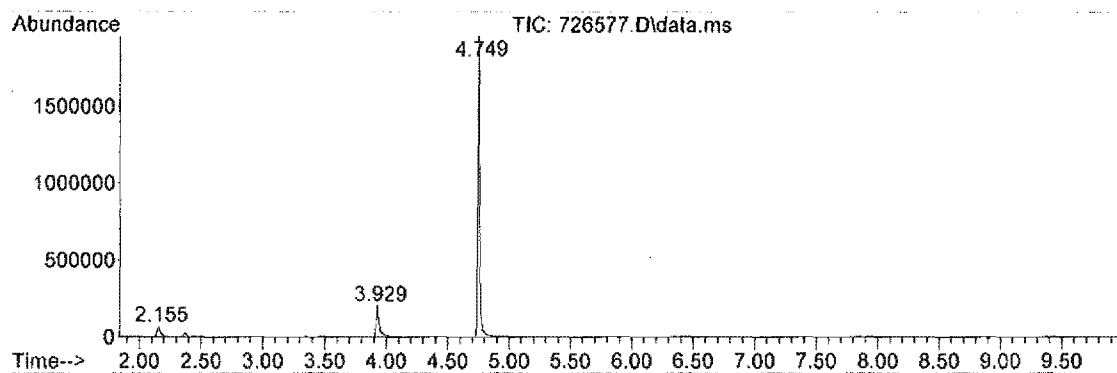
PK#	RT	Library/ID	CAS#	Qual
3	4.75	C:\Database\SLI.L COCAINE	000050-36-2	99



# Area Percent / Library Search Report

**Information from Data File:**

File Name : F:\Q2-2010\System7\06\_21\_10\726577.D  
 Operator : DCS  
 Date Acquired : 22 Jun 2010 2:00  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 77  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
2.155	139502	5.01	6.14
3.929	373573	13.42	16.45
4.749	2270578	81.57	100.00



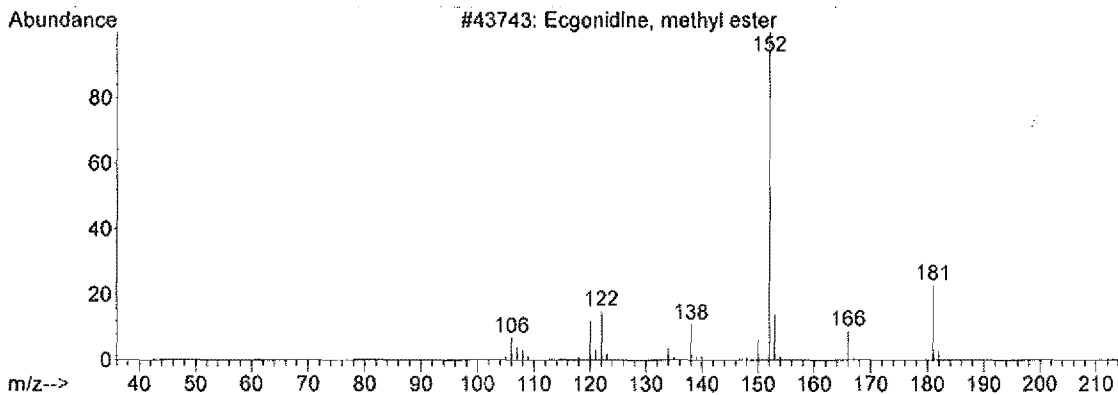
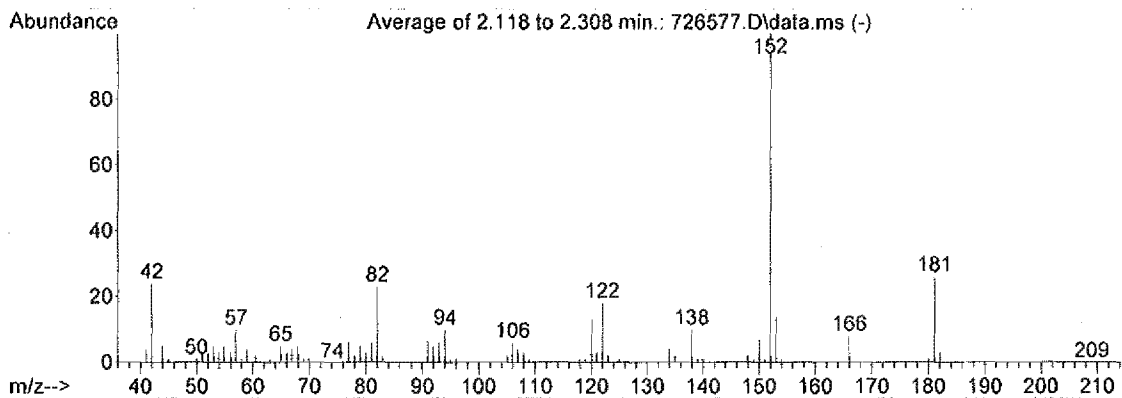
# Area Percent / Library Search Report

**Information from Data File:**

File Name : F:\Q2-2010\System7\06\_21\_10\726577.D  
 Operator : DCS  
 Date Acquired : 22 Jun 2010 2:00  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 77  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
 C:\Database\NIST05a.L Minimum Quality: 80  
 C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	2.15	C:\Database\NIST05a.L		
		Ecgonidine, methyl ester	127379-24-2	98
		2-Carbomethoxy-8-methyl-8-azabicycl	043021-26-7	94
		2(1H)-Pyridinone, 4-hydroxy-6-methy	007135-82-2	47



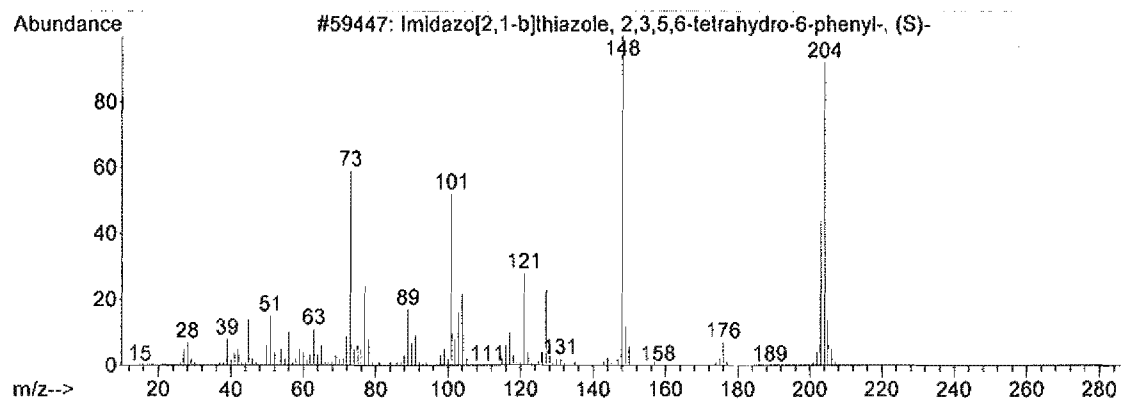
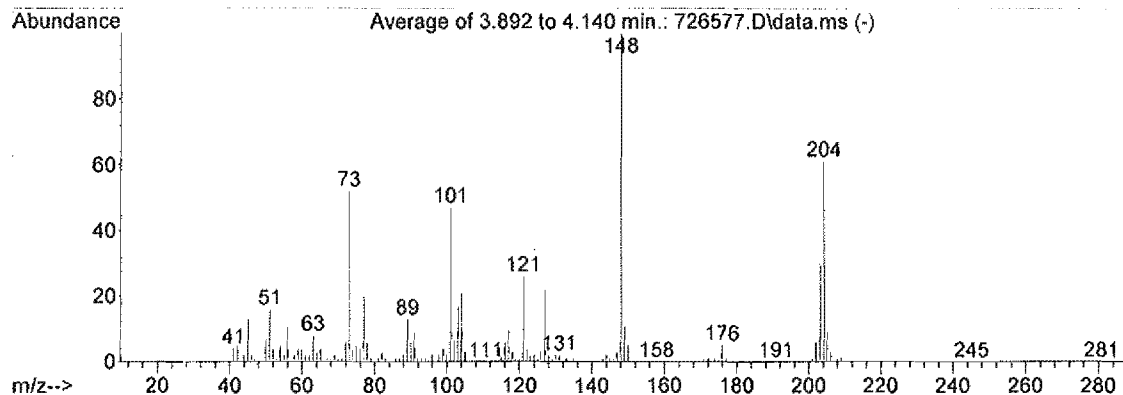
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**Information from Data File:**

File Name : F:\Q2-2010\System7\06\_21\_10\726577.D  
 Operator : DCS  
 Date Acquired : 22 Jun 2010 2:00  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 77  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
 C:\Database\NIST05a.L Minimum Quality: 80  
 C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	3.93	C:\Database\NIST05a.L		
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	014769-73-4	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98

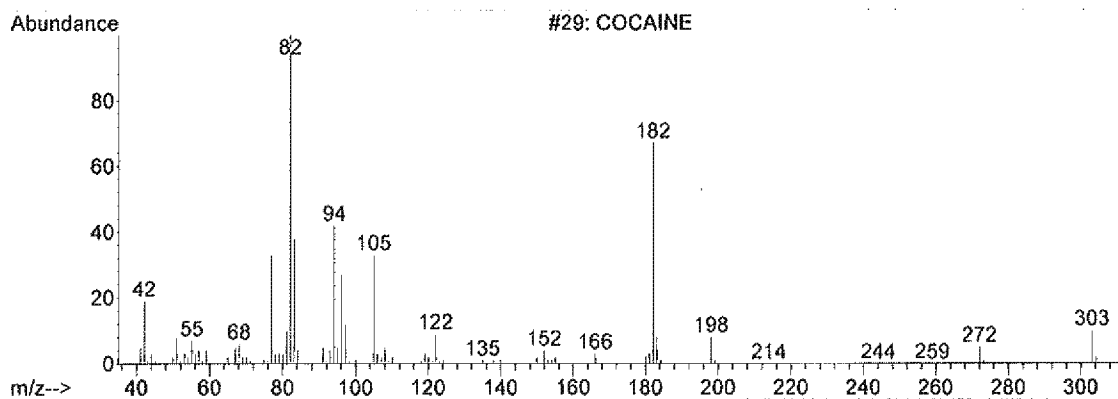
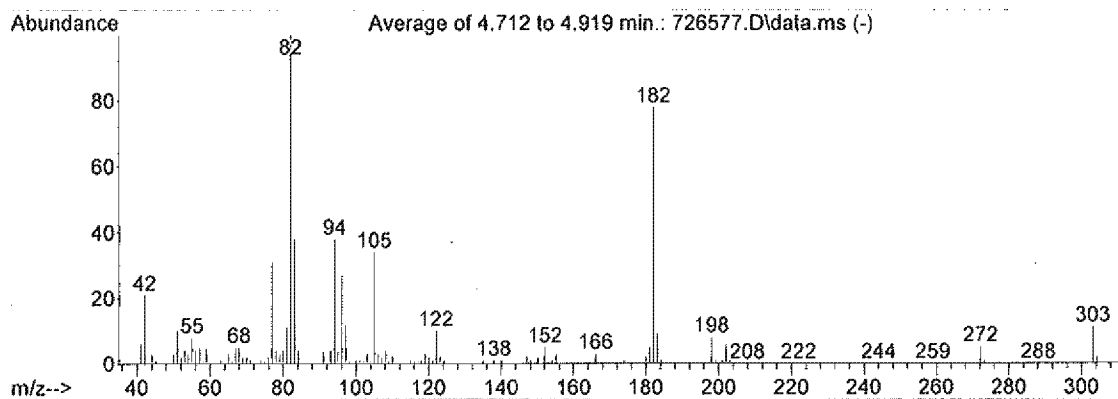


## Information from Data File:

File Name : F:\Q2-2010\System7\06\_21\_10\726577.D  
Operator : DCS  
Date Acquired : 22 Jun 2010 2:00  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 77  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
3	4.75	C:\Database\SLI.L COCAINE	000050-36-2	99



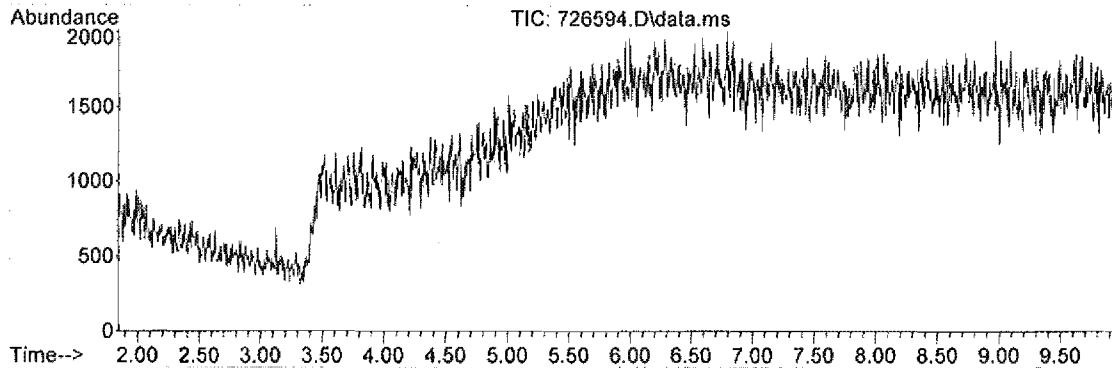
Area Percent / Library Search Report

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Information from Data File:

File Name : F:\Q2-2010\System7\06\_21\_10\726594.D  
Operator : DCS  
Date Acquired : 22 Jun 2010 5:35  
Sample Name : BLANK  
Submitted by :  
Vial Number : 2  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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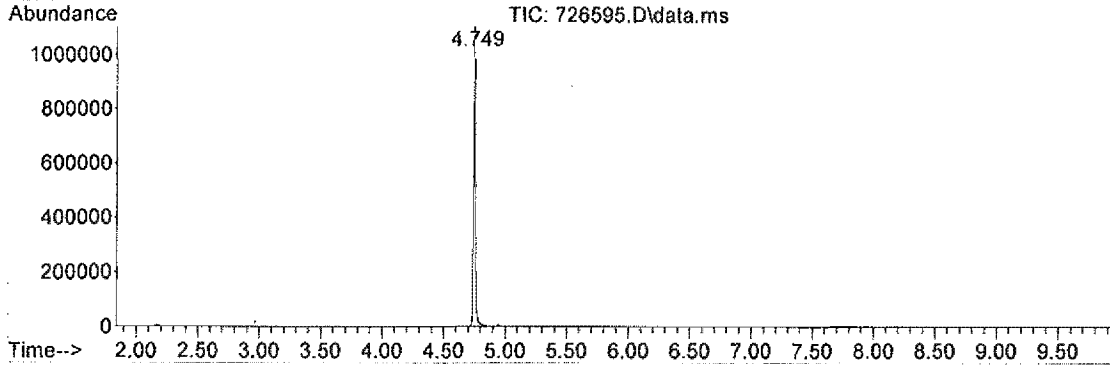
Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

Information from Data File:

File Name : F:\Q2-2010\System7\06\_21\_10\726595.D  
 Operator : DCS  
 Date Acquired : 22 Jun 2010 5:47  
 Sample Name : COCAINE STANDARD  
 Submitted by :  
 Vial Number : 95  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.749	1169829	100.00	100.00

# Area Percent / Library Search Report

**Information from Data File:**

File Name : F:\Q2-2010\System7\06\_21\_10\726595.D  
 Operator : DCS  
 Date Acquired : 22 Jun 2010 5:47  
 Sample Name : COCAINE STANDARD  
 Submitted by :  
 Vial Number : 95  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
 C:\Database\NIST05a.L Minimum Quality: 80  
 C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.75	C:\Database\SLI.L COCAINE	000050-36-2	99

